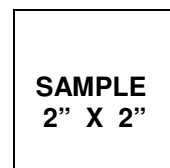


CENTRAL SILK BOARD
 Ministry of Textiles Government of India
 B.T.M. Layout, Madivala
 Bangalore 560068

CERTIFICATION CENTRE, CENTRAL SILK BOARD: _____

TEST ANALYSIS REPORT

Date: _____



- 1) Test report no. :
- 2) Name of the Exporter: M/ S
- 3) Application No. & Date
- 4) Invoice No. & date
- 5) Quality No. (if any)

PHYSICAL ANALYSIS

Sample size 10 x 10cm
 (in case of design fabric
 Repeat)
 Sample Wt in M.gms

CHEMICAL ANALYSIS

- a) Flame test
- b) Microscopic test
- c) Chemical test specify:

RESULT

- 1)
- 2)
- 3)
- 4)
- 5)

RESULT OF TAR SAMPLE

Sl.No.	Type of yarn	Denier/ Count	Warp (%)	Weft (%)	Gms/ Sq mts
1					
2					
3					
4					
5					

Assistant Director (Inspn)

SCHEDULED TESTS FOR IDENTIFYING FIBRES MAINLY OF NATURAL SILK

Sl. No.	Nature of Test		Observation	Inference		
1.	Flame Test	(a)	Burns slowly leaving a black residue which crumbles easily with fingers.	Silk		
		(b)	Burnt hair smell	Silk		
		©	Burns continuously with paper burning smell and leave white ash	Rayon / Cotton		
2.	Microscopic Test	(a)	Glass rod shaped structure less fiber	Mulberry Silk		
		(b)	Tape like flat fiber with prominent longitudinal striations	Tasar Silk		
		©	Rod shaped fiber with striations	Eri, Muga Silk		
3.	Chemical Test (A) Shirlatain (I.C.I.)	(a)	Slightly brownish orange	Degummed Silk		
		(b)	Very dark brown	Silk with gum		
		©	Bright golden yellow	Wool		
		(d)	Bright pink	Viscose Rayon		
		(e)	Bright blue	Cupramonium Rayon		
		(f)	Dull purple	Cotton		
		(g)	Violet blue	Linen		
		(h)	Dull yellow	Nylon		
		(i)	Very pale purple	Polyester		
		(B) Other Tests:				
			1. Nitric Acid Conc.		Disintegrates and dissolves	Silk
	2. Nitric Acid (70%)		The fiber stain yellow	Silk		
	3. Sulphuric Acid (75%)		Disintegrates and dissolves	Silk		
	4. Hydrochloric Acid (Conc.)		Dissolves	Silk		
	5. Sodium Hydroxide (5% Boil)		Dissolves	Silk		
	6. Million's Reagent		Stains Red	Silk		
	7. Glacial Acetic Acid	(a)	No change	Nylon		
		(b)	Dissolves	Rayon or Cotton		
	8. Zinc Chloride-Iodine		Red to Violet	Rayon or Cotton		
	9. Phenol (90%)	(a)	No change	Silk		
		(b)	Dissolves	Nylon		

For Silk/Wool blend 60% Sulphuric Acid-30 minutes silk dissolved and remaining is wool.

Note: How to make 75% (Wt./Wt.) Sulphuric Acid
 Specific gravity of Conc. Sulphuric Acid
 75% Sulphuric Acid

1.84
 75 gms of Acid
 25 gms water
 =100 gms
 =41 ml.
 =75% Sul. Acid
 =60% sulphuric Acid.

Therefore volume of 75 gms of Conc. Sul. Acid = $75/1.84$
 Therefore 41 ml. + 25 ml. distilled water
 60% Sulphuric Acid: 33 ml. Conc. Acid + 40 ml. dist. water